



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Re: Allen County
LaFayette WWTP
NPDES Permit

September 21, 2007

Mayor and Council
Village of LaFayette
P.O. Box 7184
Lafayette, Ohio 45854

Dear Mayor and Council:

On August 15, 2007, a National Pollutant Discharge Elimination System (NPDES) permit compliance inspection was conducted at the LaFayette Wastewater Treatment Plant (WWTP). Mr. Larry Core and Mr. Jim Everhardt were present and provided information on operations and maintenance at the plant.

During our visit, all major treatment units were in operation. The final effluent flow meter was out of service due to a lightning storm during the week prior to our inspection. It was expected to be returned to service within a week. The final effluent discharging to Little Hog Creek was clear. However, no samples were taken to verify compliance with NPDES permit limits.

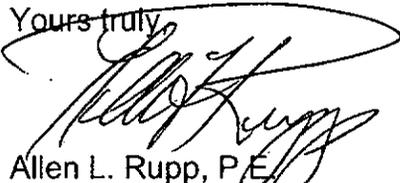
As discussed, forty two low pH violations have been reported since December 2006. The Village should investigate the source of these low pH values, in an effort to eliminate NPDES permit violations.

Please be aware that new Operator Certification rules outlined in Ohio Administrative Code (OAC) 3745-7 were issued on December 21, 2006. Staffing and certification levels outlined in the rules will become effective with any NPDES permit action, issued after December 2008. Record keeping requirements and responsibilities of a certified operator (OAC 3745-7-09) must be followed immediately. Documentation of all operation and maintenance activities on the collection system and wastewater treatment plant must be developed and maintained. The required documentation includes, but is not limited to: dates and times of arrival and departure for the operator of record and preventative maintenance logs for all plant and collection system components. The records must be kept up to date, contain a minimum of three months data at all times, and be maintained on site for at least three years.

Mayor & Council
September 21, 2007
Page Two

A copy of our completed inspection report is enclosed for your records. If you have any questions, please call Tom Poffenbarger at 419-373-3008.

Yours truly,



Allen L. Rupp, P.E.
District Engineer/ Section Manager
Division of Surface Water

TP/lb

Enclosures

pc: Mr. Larry Core w/enclosure

~~DSW-NWDO File w/enclosure~~

Sections E thru K: Complete on all inspections as appropriate. N/A - Not Applicable N/E - Not Evaluated

Section E: Permit Verification

	Yes	No	N/A	N/E
INSPECTION OBSERVATIONS VERIFY THE PERMIT				
(a) CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	<u>X</u>	___	___	___
(b) CORRECT NAME AND LOCATION OF RECEIVING WATERS	<u>X</u>	___	___	___
(c) PRODUCT(S) AND PRODUCTION RATES CONFORM WITH PERMIT APPLICATION (INDUSTRIES)	___	___	<u>X</u>	___
(d) FLOWS AND LOADINGS CONFORM WITH NPDES PERMIT PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	___
(e) TREAT PROCESSES ARE AS DESCRIBED IN PERMIT APPLICATION/BRIEFING MEMO	<u>X</u>	___	___	___
(f) NEW TREATMENT PROCESS(ES) ADDED SINCE LAST INSPECTION	___	<u>X</u>	___	___
(g) NOTIFICATION GIVEN TO STATE OF NEW, DIFFERENT OR INCREASED DISCHARGES	___	___	<u>X</u>	___
(h) ALL DISCHARGES ARE PERMITTED	<u>X</u>	___	___	___
(i) NUMBER AND LOCATION OF DISCHARGE POINTS ARE AS DESCRIBED IN PERMIT	<u>X</u>	___	___	___

COMMENTS/STATUS:

Section F: Compliance Schedules/Violations

	Yes	No	N/A	N/E
(a) ANY SIGNIFICANT VIOLATIONS SINCE THE LAST INSPECTION	<u>X</u>	___	___	___
(b) PERMITTEE IS TAKING ACTIONS TO RESOLVE VIOLATIONS	___	<u>X</u>	___	___
(c) PERMITTEE HAS COMPLIANCE SCHEDULE	___	<u>X</u>	___	___
(d) COMPLIANCE SCHEDULE CONTAINED IN _____	___	___	___	___
(e) PERMITTEE IS MEETING COMPLIANCE SCHEDULE	___	___	<u>X</u>	___

COMMENTS/STATUS:

(a) 42 pH violations have been reported in the past year.

Section G: Operation and Maintenance

TREATMENT WORKS:

	Yes	No	N/A	N/E
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED				
(a) STANDBY POWER AVAILABLE GENERATOR <u>X</u> DUAL FEED	<u>X</u>	___	___	___
(b) ADEQUATE ALARM SYSTEM AVAILABLE FOR POWER OR EQUIPMENT FAILURES	___	<u>X</u>	___	___
(c) ALL TREATMENT UNITS IN SERVICE OTHER THAN BACKUP UNITS	<u>X</u>	___	___	___
(d) SUFFICIENT OPERATING STAFF PROVIDED # SHIFTS <u>1</u> DAYS/WEEK <u>5</u>	<u>X</u>	___	___	___
(e) OPERATOR HOLDS UNEXPIRED LICENSE OF CLASS REQUIRED BY PERMIT CLASS: <u>III</u>	<u>X</u>	___	___	___
(f) ROUTINE AND PREVENTIVE MAINTENANCE SCHEDULED/PERFORMED ON TIME	<u>X</u>	___	___	___
(g) ANY MAJOR EQUIPMENT BREAKDOWN SINCE LAST INSPECTION	<u>X</u>	___	___	___
(h) OPERATION AND MAINTENANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___
(i) ANY PLANT BYPASSES SINCE LAST INSPECTION	___	<u>X</u>	___	___
(j) REGULATORY AGENCY NOTIFIED OF BYPASSES ___ ON MORS ___ 800 NO.	___	___	<u>X</u>	___
(k) ANY HYDRAULIC AND/OR ORGANIC OVERLOADS EXPERIENCED SINCE LAST INSPECTION	___	<u>X</u>	___	___

COMMENTS/STATUS:

- (b) Plant does not have an alarm for power or equipment failure.
- (d) Plant is checked on the weekends.
- (g) Flow meter and chart were out due to lightning

COLLECTION SYSTEM:

	Yes	No	N/A	N/E
(a) PERCENT COMBINED SYSTEM <u>0</u> %				
(b) ANY COLLECTION SYSTEM OVERFLOWS SINCE LAST INSPECTION (CSO_ SSO_)	___	<u>X</u>	___	___
(c) REGULATORY AGENCY NOTIFIED OF OVERFLOWS (SSOs)	___	___	<u>X</u>	___
(d) CSO O AND M PLAN PROVIDED AND IMPLEMENTED	___	___	<u>X</u>	___
(e) CSOs MONITORED AND REPORTED IN ACCORDANCE WITH PERMIT	___	___	<u>X</u>	___
(f) PORTABLE PUMPS USED TO RELIEVE SYSTEM	___	<u>X</u>	___	___
(g) LIFT STATION ALARM SYSTEMS PROVIDED AND MAINTAINED	___	<u>X</u>	___	___
(h) ARE LIFT STATIONS EQUIPPED WITH PERMANENT STANDBY POWER OR EQUIVALENT	<u>X</u>	___	___	___
(i) IS THERE AN INFLOW INFILTRATION PROBLEM (SEPARATE SEWER SYSTEM) OR WERE THERE ANY MAJOR REPAIRS TO COLLECTION SYSTEM SINCE LAST INSPECTION	<u>X</u>	___	___	___
(j) ANY COMPLAINTS RECEIVED SINCE LAST INSPECTION OF BASEMENT FLOODING	___	<u>X</u>	___	___
(k) ARE ANY PORTIONS OF THE SEWER SYSTEM AT OR NEAR CAPACITY	___	<u>X</u>	___	___

COMMENTS/STATUS:

- (g) Visual Alarm only
- (i) Plans are being developed to identify and repair I&I problems.

Section H: Sludge Management

(a) SLUDGE MANAGEMENT PLAN (SMP)
SUBMITTED DATE 10/14/92 APPROVAL # 03-322-PW NOT SUBMITTED N/A X

	Yes	No	N/A	N/E
(b) SLUDGE MANAGEMENT PLAN CURRENT	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(c) SLUDGE ADEQUATELY DISPOSED (METHOD: <u>land applied</u>)	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(d) IF SLUDGE IS INCINERATED, WHERE IS ASH DISPOSED OF _____	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(e) IS SLUDGE DISPOSAL CONTRACTED (NAME: _____)	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
(f) HAS AMOUNT OF SLUDGE GENERATED CHANGED SIGNIFICANTLY SINCE LAST INSPECTION	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
(g) ADEQUATE SLUDGE STORAGE PROVIDED AT PLANT	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(h) LAND APPLICATION SITES MONITORED AND INSPECTED PER SMP	<u> </u>	<u> </u>	<u>X</u>	<u> </u>
(i) RECORDS KEPT IN ACCORDANCE WITH STATE AND FEDERAL LAW	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(j) ANY COMPLAINTS RECEIVED IN LAST YEAR REGARDING SLUDGE	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
(k) IS SLUDGE ADEQUATELY PROCESSED (DIGESTION, DEWATERING, PATHOGEN CONTROL)	<u>X</u>	<u> </u>	<u> </u>	<u> </u>

COMMENTS/STATUS:

(c) All sludge is land applied on site; future plans are to haul sludge to a landfill.

Section I: Self-Monitoring Program

Part 1. Flow measurement

	Yes	No	N/A	N/E
(a) PRIMARY FLOW MEASURING DEVICE PROPERLY OPERATED & MAINTAINED <u>X</u>	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
TYPE OF DEVICE: <u>X</u> ULTRASONIC & PARSHALL FLUME <u> </u> ULTRASONIC & WEIR <u> </u> WEIR <u> </u> CALCULATED FROM INFLUENT <u> </u> OTHER (Specify _____)				
(b) CALIBRATION FREQUENCY ADEQUATE (Date of last calibration _____)	<u> </u>	<u>X</u>	<u> </u>	<u> </u>
(c) SECONDARY INSTRUMENTS (totalizers, recorders, etc.) PROPERLY OPERATED AND MAINTAINED	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(d) FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGES OF FLOWS	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(e) ACTUAL FLOW DISCHARGED IS MEASURED	<u>X</u>	<u> </u>	<u> </u>	<u> </u>
(f) FLOW MEASURING EQUIPMENT INSPECTION FREQUENCY: <u> </u> DAILY <u>X</u> WEEKLY <u> </u> MONTHLY <u> </u> OTHER				

COMMENTS/STATUS:

(a) Flow meter was knocked out of service during a lightning storm
(b) Flow meter will be recalibrated when it is reinstalled.

Part 2. Sampling

	Yes	No	N/A	N/E
(a) SAMPLING LOCATION(S) ARE AS SPECIFIED BY PERMIT	<u>X</u>	___	___	___
(b) PARAMETERS AND SAMPLING FREQUENCY AGREE WITH PERMIT	<u>X</u>	___	___	___
(c) PERMITTEE USES REQUIRED SAMPLING METHOD	<u>X</u>	___	___	___
(d) SAMPLE COLLECTION PROCEDURES ARE ADEQUATE	<u>X</u>	___	___	___
(i) SAMPLES REFRIGERATED DURING COMPOSITING	<u>X</u>	___	___	___
(ii) PROPER PRESERVATION TECHNIQUES USED	<u>X</u>	___	___	___
(iii) CONTAINERS AND SAMPLE HOLDING TIMES PRIOR TO ANALYSES CONFORM WITH 40 CFR 136.3	<u>X</u>	___	___	___
(e) MONITORING RECORDS (e.g., flow, pH, D.O., etc.) MAINTAINED FOR A MINIMUM OF THREE YEARS INCLUDING ALL ORIGINAL STRIP CHART RECORDINGS (e.g., continuous monitoring instrumentation, calibration and maintenance records)	<u>X</u>	___	___	___
(f) ADEQUATE RECORDS MAINTAINED OF SAMPLING DATE, TIME, EXACT LOCATION, ETC.	<u>X</u>	___	___	___

COMMENTS/STATUS:

Part 3. Laboratory

	Yes	No	N/A	N/E
GENERAL				
(a) EPA APPROVED ANALYTICAL TESTING PROCEDURES USED (40 CFR 136.3)	<u>X</u>	___	___	___
(b) IF ALTERNATE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED	___	___	<u>X</u>	___
(c) ANALYSES BEING PERFORMED MORE FREQUENTLY THAN REQUIRED BY PERMIT	___	<u>X</u>	___	___
(d) IF (c) IS YES, ARE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT	___	___	<u>X</u>	___
(e) COMMERCIAL LABORATORY USED	<u>X</u>	___	___	___
(1) PARAMETERS ANALYZED BY COMMERCIAL LAB All except pH & Dissolved Oxygen	___	___	___	___

(2) LAB NAME: Alloway

QUALITY CONTROL/QUALITY ASSURANCE

(f) QUALITY ASSURANCE MANUAL PROVIDED AND MAINTAINED	<u>X</u>	___	___	___		
(g) SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT	<u>X</u>	___	___	___		
(h) ADEQUATE RECORDS MAINTAINED	<u>X</u>	___	___	___		
(i) RESULTS OF LATEST USEPA QUALITY ASSURANCE PERFORMANCE SAMPLING PROGRAM DATE : _____	___	SATISFACTORY	___	MARGINAL	___	UNSATISFACTORY

COMMENTS/STATUS:

Section J: Effluent/Receiving Water Observations

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	VISIBLE FLOAT SOLIDS	COLOR	OTHER
001	none	none	none	none	none	clear	-

COMMENTS/STATUS:

Section K: Multimedia Observations

	Yes	No	N/A	N/E
(a) ARE THERE INDICATIONS OF SLOPPY HOUSEKEEPING OR POOR MAINTENANCE IN WORK AND STORAGE AREAS OR LABORATORIES	___	<u>X</u>	___	___
(b) DO YOU NOTICE STAINING OR DISCOLORATION OF SOILS, PAVEMENT, OR FLOORS	___	<u>X</u>	___	___
(c) DO YOU NOTICE DISTRESSED (UNHEALTHY, DISCOLORED, DEAD) VEGETATION	___	<u>X</u>	___	___
(d) DO YOU SEE UNIDENTIFIED DARK SMOKE OR DUST CLOUDS COMING FROM SOURCES OTHER THAN SMOKESTACKS	___	<u>X</u>	___	___
(e) DO YOU NOTICE ANY UNUSUAL ODORS OR STRONG CHEMICAL SMELLS	___	<u>X</u>	___	___
(f) DO YOU SEE ANY OPEN OR UNMARKED DRUMS, UNSECURED LIQUIDS, OR DAMAGED CONTAINMENT FACILITIES?	___	<u>X</u>	___	___

IF ANY OF THE ABOVE ARE OBSERVED, ASK THE FOLLOWING QUESTIONS:

- (1) WHAT IS THE CAUSE OF THE CONDITION?
- (2) IS THE OBSERVED CONDITION OR SOURCE A WASTE PRODUCT?
- (3) WHERE IS THE SUSPECTED CONTAMINANT NORMALLY DISPOSED?
- (4) IS THIS DISPOSAL PERMITTED?
- (5) HOW LONG HAS THE CONDITION EXISTED AND WHEN DID IT BEGIN?

COMMENTS/STATUS:

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection		
	Safety Features	S	Fence surrounding plant
	Bypasses	OUT	Plant Bypass
	Stormwater Overflows		
	Alternate Power Source	S	Generator
Preliminary	Maintenance of Collection Systems		
	Pump Station	IN	
	Ventilation		
	Bar Screen	OUT	On comminutor bypass line
	Disposal of Screenings		
	Comminutor	IN	
	Grit Chamber		
	Disposal of Grit		
Primary	Settling Tanks		
	Scum Removal		
	Sludge Removal		
	Effluent		
Sludge Disposal	Digesters	IN	1 Aerobic
	Temperature and pH		
	Gas Production		
	Heating Equipment		
	Sludge Pumps		
	Drying Beds	IN	2 Beds
	Vacuum Filter		
	Disposal of Sludge	S	Land applied on treatment plant grounds
Other	Flow Meter and Recorder	IN	Ultrasonic / Parshall Flume
	Records	S	
	Lab Controls	S	
	Chemical Treatment		
Secondary-Tertiary List items as	Extended Aeration	IN	2 tanks
	Clarifiers	IN	2 tanks
	Polishing Pond	OUT	
	Upward Flow Fixed Media Clarifiers	IN	4 Units - One out for cleaning
Disinfection	Effluent	S	Clear
	Disinfection System	IN	Sodium Hypochlorite
	Effective Dosage	S	
	Contact Time	S	
	Contact Tank	IN	
	Dechlorination	IN	Sodium Bisulfite